

INTERNATIONAL SEARCH REPORT

International Application No

PCT/IB2004/052718

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 H04N7/26 H04N7/46

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H04N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal , INSPEC

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No
X	WO 01/62010 A (MICROSOFT CORPORATION) 23 August 2001 (2001-08-23) page 12, lines 2-12 page 18, line 1 - page 23, line 10; figures 9,10 -----	1-4, 28
X	US 2002/071486 A1 (VAN DER SCHAAR MIHAELA ET AL) 13 June 2002 (2002-06-13) paragraph [0032] - paragraph [0039] -----	1-4, 20, 21
Y	----- -/-	22, 23

☒ Further documents are listed in the continuation of box C

☒ Patent family members are listed in annex

* Special categories of cited documents

A' document defining the general state of the art which is not considered to be of particular relevance

E' earlier document but published on or after the international filing date

L' document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

O' document referring to an oral disclosure use, exhibition or other means

P' document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance, the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y' document of particular relevance, the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

& document member of the same patent family

Date of the actual completion of the international search

30 March 2005

Date of mailing of the international search report

16. 08. 2005

Name and mailing address of the ISA

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category ²	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No
Y	<p>RONG YAN ET AL: "Effi cient video codi ng with hybri d spati al and fine-grai n SNR seal abilities"</p> <p>PROCEEDINGS OF THE SPIE - THE INTERNATIONAL SOCIETY FOR OPTI CAL ENGINEERI NG SPI E-INT. SOC. OPT. ENG USA, [Onl ine]</p> <p>vol. 4671, 2002, pages 850-859, XP002322697</p> <p>ISSN: 0277-786X</p> <p>Retrieved from the Internet:</p> <p>URL :research .mi crosoft .com/~ fengwu/papers/spati al_vci p_02 .pdf ></p> <p>[retrieved on 2005-03-24]</p>	22,23
A	<p>abstract; figure 2</p> <p>-----</p>	20
X	<p>US 2002/064227 A1 (VAN DER SCHAAR MIHAELA ET AL) 30 May 2002 (2002-05-3G)</p> <p>paragraphs [0013] - [0028]; figures 2,3</p> <p>-----</p>	24,25,32
A	<p>ARNOLD J F ET AL: "EFFICIENT DRIFT-FREE SIGNAL-TO-NOISE RATIO SCALABILITY"</p> <p>IEEE TRANSACTIONS ON CIRCUITS AND SYSTEMS FOR VIDEO TECHNOLOGY, IEEE INC. NEW YORK, US,</p> <p>vol. 10, no. 1, February 2000 (2000-02), pages 70-82, XP000906593</p> <p>ISSN: 1051-8215</p> <p>page 70, right-hand col umn, paragraph II -</p> <p>page 75, left-hand col umn</p> <p>-----</p>	26

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Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons

- 1 ☐ Claims Nos
because they relate to subject matter not required to be searched by this Authority, namely

- 2 ☐ Claims Nos
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically

- 3 ☐ Claims Nos
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6 4(a)

Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows

see additional sheet

- 1 ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims

- 2 ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee

- 3 ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos

- 4 ☒ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims, it is covered by claims Nos

1-5, 20-28, 32

Remark on Protest

☐ The additional search fees were accompanied by the applicant's protest

☐ No protest accompanied the payment of additional search fees

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-5, 20-28, 32

scalable video encoder, related decoder, encoding or decoding methods for producing/decoding a base layer and at least two enhancement layer signals each being in accordance with at least one standard

2. claims: 6-16, 29

scalable video encoder using self-contained encoder/decoder pairs with decoder and encoder being distinct from each other producing a plurality of encoded layers

3. claims: 17-19, 30-31

scalable video encoder operating in the pixel domain producing at least three encoded layers, whereby the base layer is derived from a downsampled input signal and all layers being higher than the first enhancement layer use a difference between the (downsampled) input stream and the (upsampled) decoded version of the previous layer

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Information on patent family members

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 0162010	A	23-08-2001	US 6700933 B1 02-03--2004
		AT 291329 T	15-04--2005
		AU 2959501 A	27-08--2001
		DE 60109423 D1	21-04--2005
		DE 60109423 T2	04-08--2005
		EP 1258147 A1	20-11--2002
		EP 1511324 A1	02-03--2005
		JP 2003523667 T	05-08--2003
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		WO 0162010 A1	23-08--2001

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			US 2002064227 A1 30-05-2002

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			EP 1452038 A2 01-09-2004
			WO 03047260 A2 05-06-2003
			JP 2005510978 T 21-04-2005
			WO 0233952 A2 25-04-2002
		us 2002071486 A1	13-06-2002
